



SEQUENCE LISTING

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el <120> INDUCING CELLULAR IMMUNE RESPONSES TO
HEPATITIS B VIRUS USING PEPTIDE AND NUCLEIC ACID
COMPOSITIONS

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<141> 1999-07-08

<150> US 08/820,360

<151> 1997-03-12

<150> US 60/013,363

<151> 1996-03-13

<150> US 09/189,702

<151> 1998-11-10

<150> US 08/205,713

<151> 1994-03-04

<150> US 08/159,184

<151> 1993-11-29

<150> US 08/073,205

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1 5 10

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1 5 10 15

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Ala Lys Leu Ile Gly Thr Asp Asn Ser Val Val Leu Ser Arg Lys
1 5 10 15

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Pro Leu Pro Ile His Thr Ala Glu Leu Leu Ala Ala Cys Phe Ala
1 5 10 15

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Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Leu Cys Leu Ile
1 5 10 15

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Ala Asn Trp Ile Leu Arg Gly Thr Ser Phe Val Tyr Val Pro Ser
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Asn	Ala	Pro	Ile	Leu	Ser	Thr	Leu	Pro	Glu	Thr	Thr	Val	Val	Arg
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<400> 3056

Cys	Thr	Cys	Ile	Pro	Ile	Pro	Ser	Ser	Trp	Ala	Phe	Ala	Arg	Phe
1				5					10					15

<210> 3057

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<400> 3057

Gly	Val	Trp	Ile	Arg	Thr	Pro	Pro	Ala	Tyr	Arg	Pro	Pro	Asn	Ala
1				5					10					15

<210> 3058

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<400> 3058

Ala	Glu	Leu	Leu	Ala	Ala	Cys	Phe	Ala	Arg	Ser	Arg	Ser	Gly	Ala
1				5					10					15

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Pro	His	Cys	Leu	Ala	Phe	Ser	Tyr	Met	Asp	Asp	Val	Val	Leu	Gly
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<210> 3060

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Pro Phe Leu Leu Ala Gln Phe Thr Ser Ala Ile Cys Ser Val Val
1 5 10 15

<210> 3061
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Ala Ser Lys Leu Cys Leu Gly Trp Leu Trp Gly Met Asp Ile Asp
1 5 10 15

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Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr
1 5 10 15

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Arg Asp Val Leu Cys Leu Arg Pro Val Gly Ala Glu Ser Arg Gly
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Arg Pro Gly Leu Cys Gln Val Phe Ala Asp Ala Thr Pro Thr Gly
1 5 10 15

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Pro Gln Ser Leu Asp Ser Trp Trp Thr Ser Leu Asn Phe Leu Gly
1 5 10 15

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Arg Asp Leu Leu Asp Thr Ala Ser Ala Leu Tyr Arg Glu Ala Leu
1 5 10 15

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Trp Leu Ser Leu Asp Val Ser Ala Ala Phe Tyr His Ile Pro Leu
1 5 10 15

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Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val Cys Pro Leu
1 5 10 15

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Ala Gly Pro Leu Glu Glu Glu Leu Pro Arg Leu Ala Asp Glu Gly

1 5 10 15

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1 5 10 15

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Asp Val Val Leu Gly Ala Lys Ser Val Gln His Leu Glu Ser Leu
1 5 10 15

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Val Gly Leu Leu Gly Phe Ala Ala Pro Phe Thr Gln Cys Gly Tyr
1 5 10 15

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Pro Ile Ile Leu Gly Phe Arg Lys Ile Pro Met Gly Val Gly Leu
1 5 10 15

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<400> 3074

Asp Leu Asn Leu Gly Asn Leu Asn Val Ser Ile Pro Trp Thr His
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Ser Gly Phe Leu Gly Pro Leu Leu Val Leu Gln Ala Gly Phe Phe
1 5 10 15

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<400> 3076

His Leu Pro Leu His Pro Ala Ala Met Pro His Leu Leu Val Gly
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<400> 3077

Leu Leu Cys Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly
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<400> 3078

Lys Arg Arg Leu Lys Leu Ile Met Pro Ala Arg Phe Tyr Pro Asn
1 5 10 15

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<400> 3079

Glu	Ile	Arg	Leu	Lys	Val	Phe	Val	Leu	Gly	Gly	Cys	Arg	His	Lys
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<400> 3080

Ser	Pro	Phe	Leu	Leu	Ala	Gln	Phe	Thr	Ser	Ala	Ile	Cys	Ser	Val
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<400> 3081

Ile	Arg	Asp	Leu	Leu	Asp	Thr	Ala	Ser	Ala	Leu	Tyr	Arg	Glu	Ala
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<210> 3082

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<400> 3082

Phe	Pro	Trp	Leu	Leu	Gly	Cys	Ala	Ala	Asn	Trp	Ile	Leu	Arg	Gly
1				5					10					15

<210> 3083

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<400> 3083

Ile	Val	Gly	Leu	Leu	Gly	Phe	Ala	Ala	Pro	Phe	Thr	Gln	Cys	Gly
1				5					10					15

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<400> 3084
His Gly Gly Leu Leu Gly Trp Ser Pro Gln Ala Gln Gly Ile Leu
1 5 10 15

<210> 3085
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<400> 3085
Leu Phe Ile Leu Leu Leu Cys Leu Ile Phe Leu Leu Val Leu Leu
1 5 10 15

<210> 3086
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<400> 3086
Ser Val Glu Leu Leu Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser
1 5 10 15

<210> 3087
<211> 15
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<220>
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<400> 3087
Thr Asn Phe Leu Leu Ser Leu Gly Ile His Leu Asn Pro Asn Lys
1 5 10 15

<210> 3088
<211> 15
<212> PRT
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<400> 3088
Leu Thr Asn Leu Leu Ser Ser Asn Leu Ser Trp Leu Ser Leu Asp
1 5 10 15

<210> 3089
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<400> 3089
Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu
1 5 10 15

<210> 3090
<211> 15
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<400> 3090
Leu Gly Pro Leu Leu Val Leu Gln Ala Gly Phe Phe Leu Leu Thr
1 5 10 15

<210> 3091
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<400> 3091
Trp Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu
1 5 10 15

<210> 3092
<211> 15
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<400> 3092
Ile Arg Gln Leu Leu Trp Phe His Ile Ser Cys Leu Thr Phe Gly
1 5 10 15

<210> 3093
<211> 15
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<400> 3093
Tyr Pro Ala Leu Met Pro Leu Tyr Ala Cys Ile Gln Ser Lys Gln

1 5 10 15

<210> 3094
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<400> 3094
Ala Glu Asp Leu Asn Leu Gly Asn Leu Asn Val Ser Ile Pro Trp
1 5 10 15

<210> 3095
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<400> 3095
Gly Ile His Leu Asn Pro Asn Lys Thr Lys Arg Trp Gly Tyr Ser
1 5 10 15

<210> 3096
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<400> 3096
Asp Glu Gly Leu Asn Arg Arg Val Ala Glu Asp Leu Asn Leu Gly
1 5 10 15

<210> 3097
<211> 15
<212> PRT
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<400> 3097
Leu Gly Asn Leu Asn Val Ser Ile Pro Trp Thr His Lys Val Gly
1 5 10 15

<210> 3098
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<400> 3098

Leu Ser Thr Leu Pro Glu Thr Thr Val Val Arg Arg Arg Gly Arg
1 5 10 15

<210> 3099

<211> 15

<212> PRT

<213> Artificial Sequence

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<400> 3099

Leu Pro Leu Leu Pro Ile Phe Phe Cys Leu Trp Val Tyr Ile Glx
1 5 10 15

<210> 3100

<211> 15

<212> PRT

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<400> 3100

Val Ala Pro Leu Pro Ile His Thr Ala Glu Leu Leu Ala Ala Cys
1 5 10 15

<210> 3101

<211> 15

<212> PRT

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<220>

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<400> 3101

Phe Arg Lys Leu Pro Val Asn Arg Pro Ile Asp Trp Lys Val Cys
1 5 10 15

<210> 3102

<211> 15

<212> PRT

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<220>

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<400> 3102

Cys Trp Trp Leu Gln Phe Arg Asn Ser Lys Pro Cys Ser Asp Tyr
1 5 10 15

<210> 3103

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3103

His	Leu	Ser	Leu	Arg	Gly	Leu	Pro	Val	Cys	Ala	Phe	Ser	Ser	Ala
1				5					10					15

<210> 3104

<211> 15

<212> PRT

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<400> 3104

Val	Leu	Cys	Leu	Arg	Pro	Val	Gly	Ala	Glu	Ser	Arg	Gly	Arg	Pro
1				5					10					15

<210> 3105

<211> 15

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<400> 3105

His	Thr	Ala	Leu	Arg	Gln	Ala	Ile	Leu	Cys	Trp	Gly	Glu	Leu	Met
1				5					10					15

<210> 3106

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<400> 3106

Trp	Met	Cys	Leu	Arg	Arg	Phe	Ile	Ile	Phe	Leu	Phe	Ile	Leu	Leu
1				5					10					15

<210> 3107

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<400> 3107

Val	Glu	Leu	Leu	Ser	Phe	Leu	Pro	Ser	Asp	Phe	Phe	Pro	Ser	Ile
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<210> 3108

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<400> 3108
Leu Ser Trp Leu Ser Leu Asp Val Ser Ala Ala Phe Tyr His Ile
1 5 10 15

<210> 3109
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<400> 3109
Phe Ser Trp Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val
1 5 10 15

<210> 3110
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<400> 3110
Gly Ala His Leu Ser Leu Arg Gly Leu Pro Val Cys Ala Phe Ser
1 5 10 15

<210> 3111
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<400> 3111
Gly Val Gly Leu Ser Pro Phe Leu Leu Ala Gln Phe Thr Ser Ala
1 5 10 15

<210> 3112
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<400> 3112
Ser Val Val Leu Ser Arg Lys Tyr Thr Ser Phe Pro Trp Leu Leu
1 5 10 15

<210> 3113
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<212> PRT
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<400> 3113
Thr Asn Leu Leu Ser Ser Asn Leu Ser Trp Leu Ser Leu Asp Val
1 5 10 15

<210> 3114
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<220>
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<400> 3114
Gly Thr Asn Leu Ser Val Pro Asn Pro Leu Gly Phe Phe Pro Asp
1 5 10 15

<210> 3115
<211> 15
<212> PRT
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<220>
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<400> 3115
Ser Ser Asn Leu Ser Trp Leu Ser Leu Asp Val Ser Ala Ala Phe
1 5 10 15

<210> 3116
<211> 15
<212> PRT
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<400> 3116
Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asp Ser Trp Trp Thr
1 5 10 15

<210> 3117
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<400> 3117
Leu Gln Ser Leu Thr Asn Leu Leu Ser Ser Asn Leu Ser Trp Leu

1 5 10 15

<210> 3118
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<400> 3118
Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asp
1 5 10 15

<210> 3119
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<400> 3119
Gly Val Phe Leu Val Asp Lys Asn Pro His Asn Thr Thr Glu Ser
1 5 10 15

<210> 3120
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<212> PRT
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<400> 3120
Leu Glu Tyr Leu Val Ser Phe Gly Val Trp Ile Arg Thr Pro Pro
1 5 10 15

<210> 3121
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<400> 3121
Glu Ser Arg Leu Val Val Asp Phe Ser Gln Phe Ser Arg Gly Asn
1 5 10 15

<210> 3122
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<400> 3122

Arg Gln Leu Leu Trp Phe His Ile Ser Cys Leu Thr Phe Gly Arg
1 5 10 15

<210> 3123

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 3123

Leu Gly Trp Leu Trp Gly Met Asp Ile Asp Pro Tyr Lys Glu Phe
1 5 10 15

<210> 3124

<211> 15

<212> PRT

<213> Artificial Sequence

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<400> 3124

Leu His Thr Leu Trp Lys Ala Gly Ile Leu Tyr Lys Arg Glu Thr
1 5 10 15

<210> 3125

<211> 15

<212> PRT

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<220>

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<400> 3125

Ala Ser Ala Leu Tyr Arg Glu Ala Leu Glu Ser Pro Glu His Cys
1 5 10 15

<210> 3126

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially Synthesized Peptide

<400> 3126

Lys Leu His Leu Tyr Ser His Pro Ile Ile Leu Gly Phe Arg Lys
1 5 10 15

<210> 3127

<211> 15

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<400> 3127

Phe	Ser	Tyr	Met	Asp	Asp	Val	Val	Leu	Gly	Ala	Lys	Ser	Val	Gln
1				5					10					15

<210> 3128

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<400> 3128

Lys	Ile	Pro	Met	Gly	Val	Gly	Leu	Ser	Pro	Phe	Leu	Leu	Ala	Gln
1				5					10					15

<210> 3129

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<212> PRT

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<400> 3129

Pro	Ala	Ala	Met	Pro	His	Leu	Leu	Val	Gly	Ser	Ser	Gly	Leu	Ser
1				5					10					15

<210> 3130

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<212> PRT

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<400> 3130

Pro	Gln	Ala	Met	Gln	Trp	Asn	Ser	Thr	Thr	Phe	His	Gln	Thr	Leu
1				5					10					15

<210> 3131

<211> 15

<212> PRT

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<400> 3131

Leu	Ser	Ala	Met	Ser	Thr	Thr	Asp	Leu	Glu	Ala	Tyr	Phe	Lys	Asp
1				5					10					15

<210> 3132

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<212> PRT
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<400> 3132
Ile Trp Met Met Trp Tyr Trp Gly Pro Ser Leu Tyr Asn Ile Leu
1 5 10 15

<210> 3133
<211> 15
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<400> 3133
Gly Leu Pro Val Cys Ala Phe Ser Ser Ala Gly Pro Cys Ala Leu
1 5 10 15

<210> 3134
<211> 15
<212> PRT
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<400> 3134
Asp Trp Lys Val Cys Gln Arg Ile Val Gly Leu Leu Gly Phe Ala
1 5 10 15

<210> 3135
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<400> 3135
Leu Cys Gln Val Phe Ala Asp Ala Thr Pro Thr Gly Trp Gly Leu
1 5 10 15

<210> 3136
<211> 15
<212> PRT
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<220>
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<400> 3136
Gln Trp Phe Val Gly Leu Ser Pro Thr Val Trp Leu Ser Val Ile
1 5 10 15

<210> 3137
<211> 15
<212> PRT
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<220>
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<400> 3137
Gln Gln Tyr Val Gly Pro Leu Thr Val Asn Glu Lys Arg Arg Leu
1 5 10 15

<210> 3138
<211> 15
<212> PRT
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<220>
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<400> 3138
Pro Asp Arg Val His Phe Ala Ser Pro Leu His Val Ala Trp Arg
1 5 10 15

<210> 3139
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<212> PRT
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<220>
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<400> 3139
Ala Arg Asp Val Leu Cys Leu Arg Pro Val Gly Ala Glu Ser Arg
1 5 10 15

<210> 3140
<211> 15
<212> PRT
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<220>
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<400> 3140
Asp Asp Val Val Leu Gly Ala Lys Ser Val Gln His Leu Glu Ser
1 5 10 15

<210> 3141
<211> 15
<212> PRT
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<220>
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<400> 3141
Leu Pro Lys Val Leu His Lys Arg Thr Leu Gly Leu Ser Ala Met

1 5 10 15

<210> 3142
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 3142
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Ala Phe Ser Tyr Met Asp Asp Val Val Leu Gly Ala Lys Ser Val
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1 5 10

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<210> 3324

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<210> 3334

<211> 11

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1 5 10

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1 5 10

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1 5

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1 5 10

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<400> 3349
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1 5

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Ala Leu Met Pro Leu Tyr Ala Cys Ile
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Trp Leu Ser Leu Leu Val Pro Phe Val
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His Thr Leu Trp Lys Ala Gly Ile Leu Tyr Lys
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Ser Thr Leu Pro Glu Thr Thr Val Val Arg Arg
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Asn Val Ser Ile Pro Trp Thr His Lys
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Leu Val Val Asp Phe Ser Gln Phe Ser Arg
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Gln Ala Phe Thr Phe Ser Pro Thr Tyr Lys
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Ser Ala Ile Cys Ser Val Val Arg Arg
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Lys Val Gly Asn Phe Thr Gly Leu Tyr
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Thr Pro Ala Arg Val Thr Gly Gly Val Phe
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Asp Leu Leu Asp Thr Ala Ser Ala Leu Tyr
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Arg Trp Met Cys Leu Arg Arg Phe Ile Ile
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Ser Trp Leu Ser Leu Leu Val Pro Phe
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Ser Trp Trp Thr Ser Leu Asn Phe Leu
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Ala Tyr Arg Pro Pro Asn Ala Pro Ile
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Ser Trp Pro Lys Phe Ala Val Pro Asn Leu
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Lys Tyr Thr Ser Phe Pro Trp Leu Leu
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<210> 3857
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<400> 3857

Leu Tyr Ser His Pro Ile Ile Leu Gly Phe
1 5 10

<210> 3858

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Leu Gln Ser Leu Thr Asn Leu Leu Ser Ser Asn Leu Ser Trp Leu
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Lys Gln Ala Phe Thr Phe Ser Pro Thr Tyr Lys Ala Phe Leu Cys
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Ala Gly Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser
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Gly Thr Ser Phe Val Tyr Val Pro Ser Ala Leu Asn Pro Ala Asp
1 5 10 15

<210> 3862

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Val Ser Phe Gly Val Trp Ile Arg Thr Pro Pro Ala Tyr Arg Pro Pro
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Asn Ala Pro Ile
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<210> 3863
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Arg His Tyr Leu His Thr Leu Trp Lys Ala Gly Ile Leu Tyr Lys
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Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu Ser Pro Thr Val
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Leu His Leu Tyr Ser His Pro Ile Ile Leu Gly Phe Arg Lys Ile
1 5 10 15

<210> 3866
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Pro Phe Leu Leu Ala Gln Phe Thr Ser Ala Ile Cys Ser Val Val

1 5 10 15

<210> 3867
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Lys Gln Cys Phe Arg Lys Leu Pro Val Asn Arg Pro Ile Asp Trp
1 5 10 15

<210> 3868
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<400> 3868
Ala Ala Asn Trp Ile Leu Arg Gly Thr Ser Phe Val Tyr Val Pro
1 5 10 15

<210> 3869
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<400> 3869
Pro His His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu Leu
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Met Thr Leu Ala
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<210> 3870
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Leu Cys Gln Val Phe Ala Asp Ala Thr Pro Thr Gly Trp Gly Leu
1 5 10 15

<210> 3871
<211> 15
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<400> 3871

Glu Ser Arg Leu Val Val Asp Phe Ser Gln Phe Ser Arg Gly Asn
1 5 10 15

<210> 3872

<211> 15

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<213> Artificial Sequence

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<400> 3872

Val Gly Pro Leu Thr Val Asn Glu Lys Arg Arg Leu Lys Leu Ile
1 5 10 15

<210> 3873

<211> 15

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<400> 3873

Ser Ser Asn Leu Ser Trp Leu Ser Leu Asp Val Ser Ala Ala Phe
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<210> 3874

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<400> 3874

Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
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<211> 21

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<400> 3875

Asp Ile Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe
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Asn Val Val Asn Ser
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<210> 3876
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Gly Ala Val Asp Ser Ile Leu Gly Gly Val Ala Thr Tyr Gly Ala Ala
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Ala Lys Xaa Val Trp Ala Asn Thr Leu Lys Ala Ala Ala
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<223> Ile, Val, Met, Ser, Ala, Cys, Thr, Pro, or Leu

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<400> 3878
Xaa Met Trp Ala Xaa Xaa Met Xaa Xaa
1 5

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<223> Gly, Arg, or Asp

<400> 3879
Xaa Cys Xaa Gly Xaa Xaa Xaa Asn Gly
1 5
